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TCS No. 10297/64  
IB No. 413/64  
12 November 1964  
Copy No. 1

MEMORANDUM FOR: Chief, Resources Division, ORR

ATTENTION : [REDACTED] 25X1A

THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS

FROM : Chief, CIA/PID

SUBJECT : Kuybyshev Petroleum Refinery, USSR

REFERENCE : (1) ORR Requirement No. C-RR4-81,231  
(2) CIA/PID Project No. C 590/64

1. This memorandum is forwarded in answer to the above mentioned requirement which requested an analysis and a comparative study of the petroleum refinery located near Kuybyshev, USSR.

2. Information concerning this refinery as requested is as follows:

a. Location - The refinery is located approximately 4.5 nm SSW of the city of Kuybyshev along the east bank of the Volga River and adjacent to the Kuybyshev-Penza Railroad. The geographic coordinates of the refinery are 53° 06'N - 50° 04'E (See Figures 1 and 2).

b. Areal Extent - The refinery area is rectangular in shape, measuring approximately [REDACTED] feet and it is oriented east north-east by west south-west. 25X1D

25X1D  
25X1D  
c. Construction Status - From the overall appearance of the refinery, and judging from the rate of change that has taken place between [REDACTED] it appears to have been in continuous expansion. Although the plant appeared to be active and operating, nevertheless, construction on additional units was active throughout the [REDACTED] period. There is still sufficient room for expansion and it appears as if additional units will be located at this refinery.

Declass Review by NIMA/DOD

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GROUP 1  
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downgrading and  
declassification

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SUBJECT: Kuybyshev Petroleum Refinery, USSR

d. Level of Activity - The refinery, and associated activity, appeared to be in operation on all photography used in this study. The heat and power plant, cooling towers, flare tower and several refining and processing units showed evidence of some level of operation. 25X1D

e. Photography Used - All available photography covering this plant area was utilized in this study. From this material, [REDACTED] were selected on the basis of having good quality photography. These are Missions [REDACTED] 25X1D

[REDACTED] respectively (See Figures 3-8). The attached graphics have been arranged in a chronological order. Figure 7 contains all of the pertinent data including the overlays with annotations. Detail concerning the changes, additions and identification of changes that have occurred are given in chronological order in the following paragraphs.

3. The Overlay II accompanying figure seven outlines the refinery area and the various sections within the refinery. Plant analysis of the refinery is presented under the number corresponding to that annotation on the overlay (See Figure 7, Overlay II).

- (1) Combination unit. This unit probably contains cracking, topping, reforming and gas recovery.
- (2) Desalting unit.
- (3) Steam and power plant and associated cooling towers. The plant provides electric power and steam
- (4) Acid and caustic treating area
- (5) Ethyl plant
- (6) Pump house
- (7) 12 Blimp tanks - probably for butane
- (8) Railcar loading and unloading facilities
- (9) Water treating and oil separator area
- (10) Machine shops and warehouses
- (11) Probable alkylation unit with associated facilities

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SUBJECT: Kuybyshev Petroleum Refinery, USSR

- (12) Water treating area and cooling towers
- (13) Flare tower
- (14) Cracking units
- (15) Probable polymerization unit with associated facilities
- (16) Warehousing, shops and open storage
- (17) Probable administration area
- (18) Distillation units
- (19) Probable lubricating refining area
- (20) New unidentified construction area
- (21) Probable vapor recovery unit
- (22) Unidentified processing units (Two areas)
- (23) Petroleum storage areas

25X1D

25X1D

4. Photo coverage over the refinery on KEYHOLE Mission [REDACTED], dated [REDACTED] was utilized for the major visible changes that have occurred during the [REDACTED] period (See Figure 7, Overlay III).

25X1D

The area outlined in black is the lend lease plant #3 sent to the USSR in 1943. The area outlined in blue is the expansion that has occurred to [REDACTED]. The area in red denotes new expansion and construction that has been observed on photography of [REDACTED]. In comparison of photography of [REDACTED] no new units have been added to the area outlined in blue. There has been only minor visible changes observed.

25X1D

25X1D

5. All measurements have been made by the CIA/PID/IB project analyst. They should be considered as approximate and must not be taken as official NPIC mensuration data compiled by the Technical Intelligence Division, NPIC.

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25X1A

6. The photo analyst assigned to this requirement was [REDACTED]  
[REDACTED] who may be contacted on extension 2546, should any question  
arise concerning this memorandum. This memorandum and attachments  
complete this requirement.

ENCLOSURES:

- 2 Annotated Maps (CIA/PID/IB-P-1406)
- 6 Annotated Photos (CIA/PID/IB-P-1406)

25X1A

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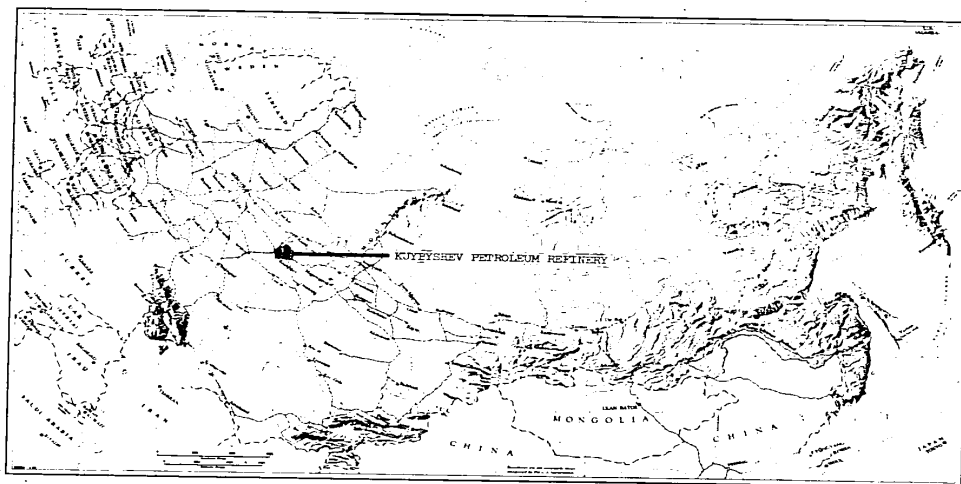
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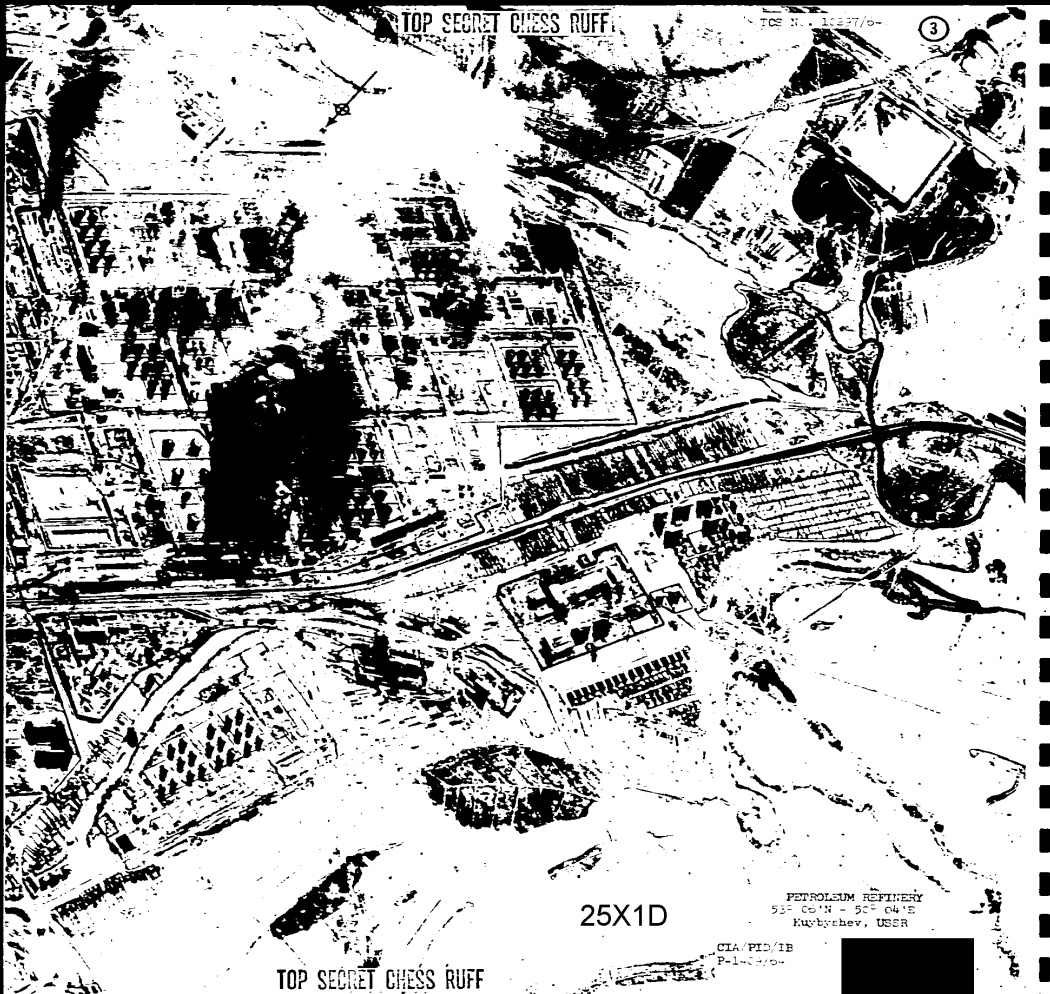
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CIA/PID/IB-P-1406/64

25X5

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③

25X1D

PETROLEUM REFINERY  
53° 00'N - 50° 04'E  
Kuybyshev, USSR

CIA/PID/IB  
Palace

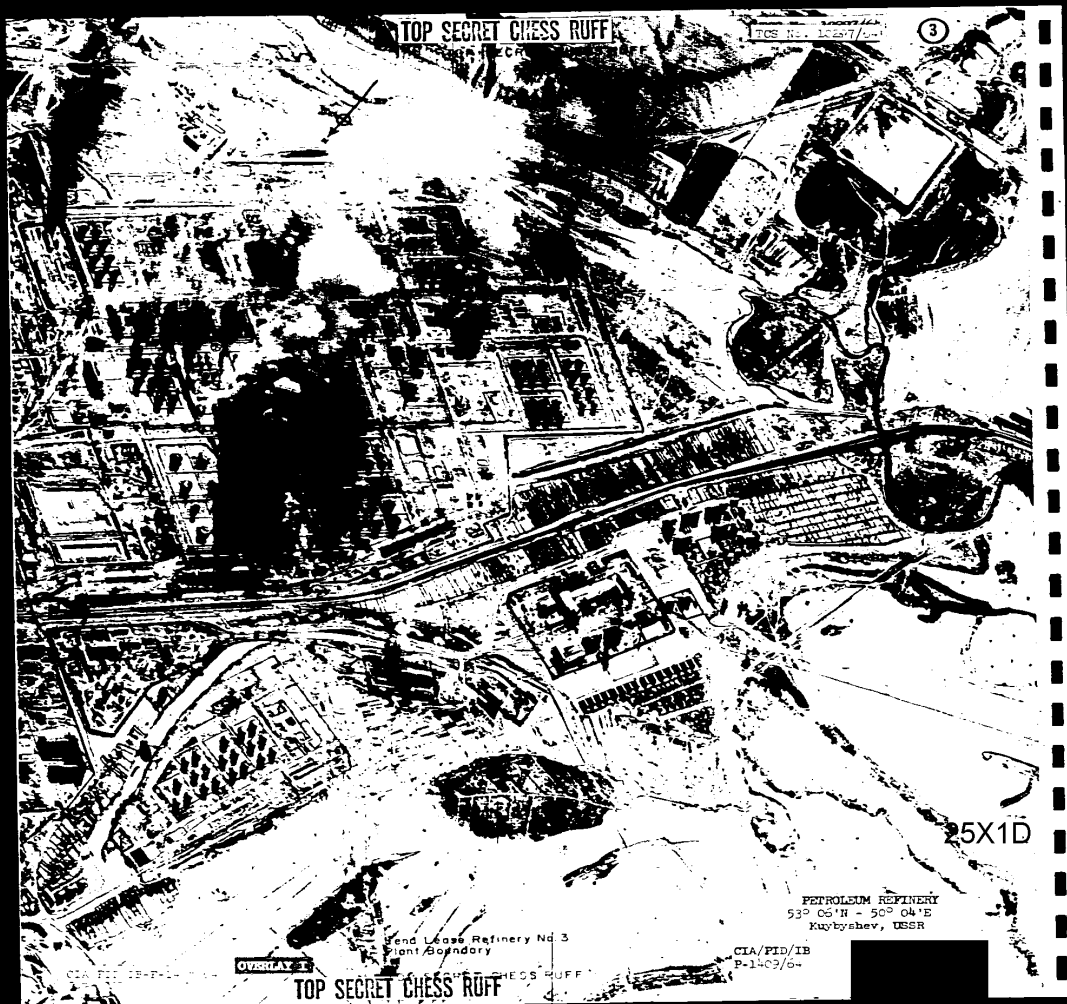
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PCS No. 10007/1-2

3

25X1D

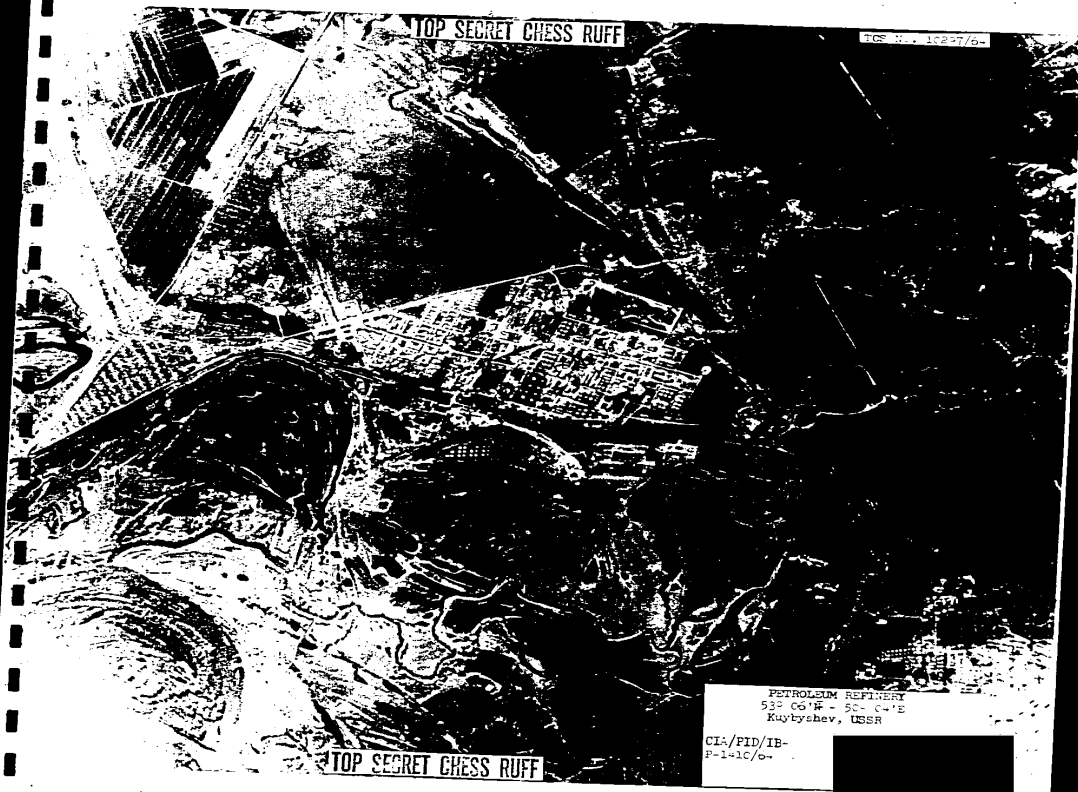
PETROLEUM REFINERY  
53° 06'N - 50° 04'E  
Kuybyshev, USSR

Plant Boundary

CIA/FID/IB  
8-14-69/6-

OVERLAY 1

TOP SECRET CHESS RUFF



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REF No. 10227/0-

PETROLEUM REFINERY  
53° 06'N - 50° 04'E  
Kuybyshev, USSR

CIA/PID/IE-  
P-141C/0-

TOP SECRET CHESS RUFF

25X1D



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TCS No. 1027/64

PETROLEUM REFINERY  
53° Co'N - 50° C4'E  
Kuytyshev, USSR  
CIA/PID/IB-  
P-1-11/64

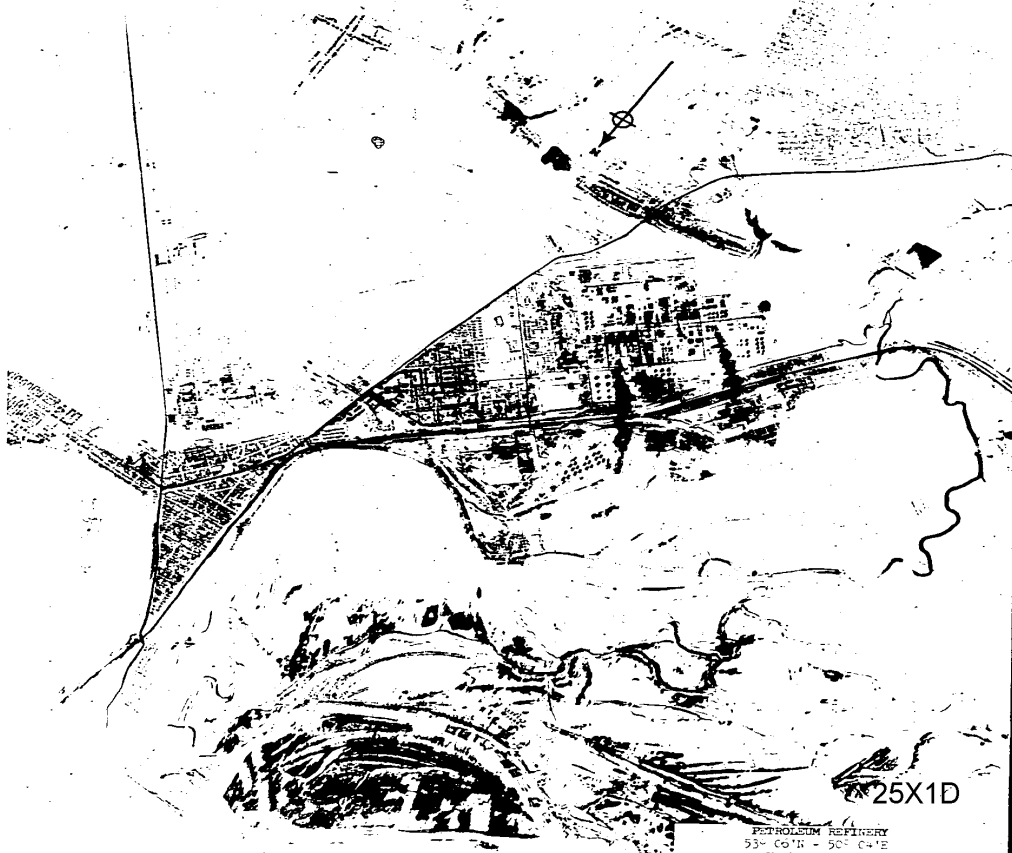
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TCS No. 10297/64

6



25X1D

PETROLEUM REFINERY  
53° 00' N - 50° 00' E  
Kuybyshev, USSR

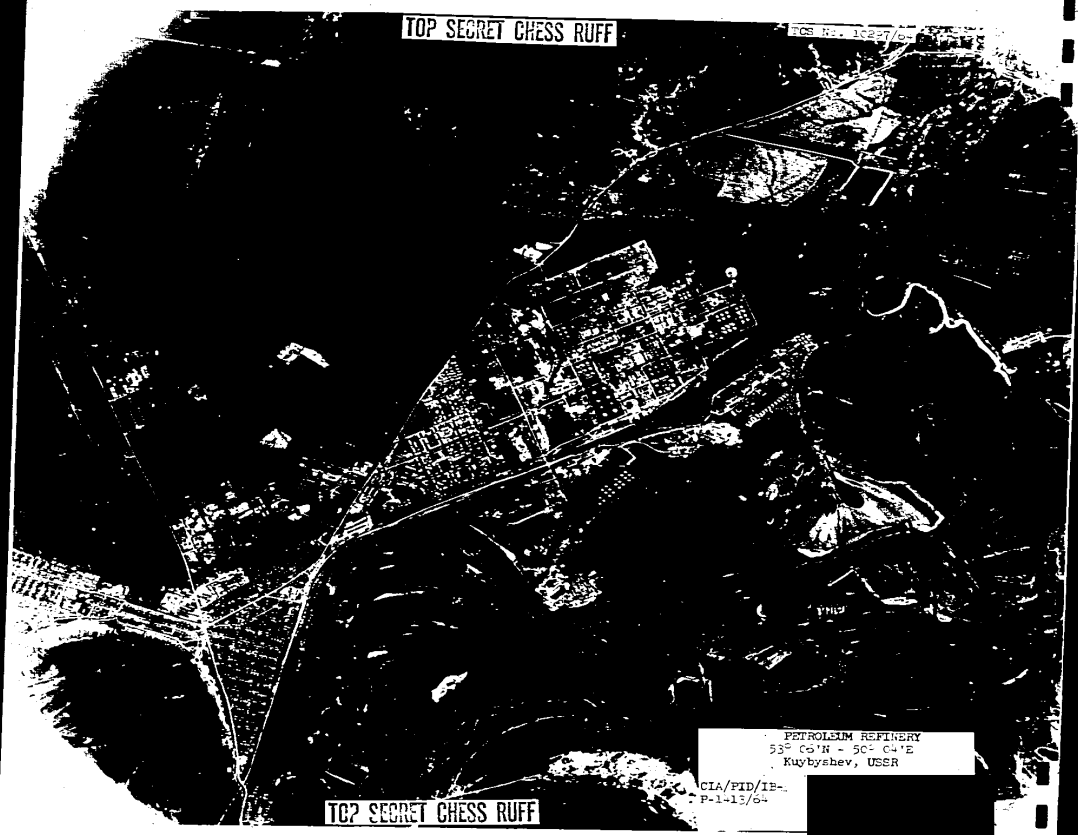
CIA, PID/IE-  
P-1-12,0-

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7

TOP SECRET GHESS RUFF

TOP SECRET GHESS RUFF



TOP SECRET GHESS RUFF

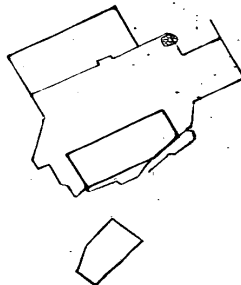
PETROLEUM REFINERY  
53° 00' N - 50° 04' E  
Kuybyshev, USSR

CIA/PID/IB-  
P-1-13/64

25X1D

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TCS No. 10297/04



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REFINERY EXPANSION

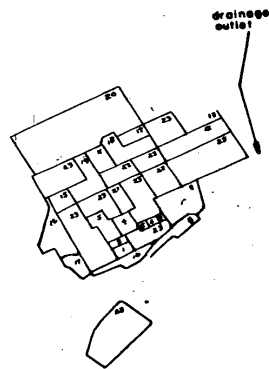
CIA/FID IE-Pol-04-04

OVERLAY III

25X1D

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OVERLAY II



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7

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF



PETROLEUM REFINERY  
53° 06' N - 50° 04' E  
Kuybyshev, USSR

CIA/PID/LB-  
P-1413/64

PHOTO DATA:

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25X1D

TOP SECRET CHESS RUFF

25X1D

REFINERY EXPANSION

CIA PID LB-P-1413/64

OVERLAY III

CIA PID LB-P-1413/64

OVERLAY III



TOP SECRET CHESS RUFF

KUYBISHEV PETROLEUM REFINERY

NOVO KUYBISHEV PETROLEUM REFINERY

PETROLEUM REFINERY  
54° 00' N - 50° 00' E  
55° 00' N - 47° 00' E  
Kuybyshev, USSR

CLM/TID/ID-

19-23-14/04

25X1D

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